

## ABSTRACT

10 An electronics control system for full color and monochrome flat panel displays which automatically accommodates video signals of numerous types and formats, whether interlaced, non-interlaced, composite, or video signals with separated sync signals. Display of such video signals on a wide selection of flat panel display systems also is accommodated. Incoming and output video rates are asynchronous. Plug-in modules allow the system to convert video signals of numerous types and modes for display on any flat panel display system. Images are both automatically, and under user control, up-sized and down-sized, positioned and oriented to fit the flat panel display being used. Color images are automatically reduced to grey scale monochrome when a monochrome flat panel display is being used. Push-pull A/D converter circuitry for digitizing color video signals is used to reduce cost while conserving power. A further power saving feature provides for automatic power down when video reception is interrupted, and power up when the video reception is reacquired.